

## Technical Specifications for Chlorinated Polyvinyl Chloride (CPVC) Pipes & fittings

Chlorinated Polyvinyl Chloride (CPVC) pipe and fittings are required as specified in this document.

**Quantity: 1 set**

### **General Specification**

Particulars	Requirement
Working Fluid	Water
Pressure rating	28 kg/cm <sup>2</sup> or more at 27°C 6.5 kg/cm <sup>2</sup> or more at 80°C
Pipe & fitting thickness	As per schedule or mentioned standard

The items as mentioned below shall be offered as “SET”. Prices for individual items is not required to be offered separately. The offered price shall include all the items mentioned in this specification. Offer for “Incomplete” set shall not be considered. A “Set” shall consists of following items:

### **A. CPVC Pipes**

S. No.	Size	Quantity
A.1.	50 mm (2”) diameter x3000 mm length, Class 1- SDR 11	130 No.
A.2.	40 mm (1½”) diameter x3000 mm length, Class 1- SDR 11	20 No.
A.3.	25 mm (1”) diameter x3000 mm length, Class 1- SDR 11	50 No.
A.4.	20 mm (¾”) diameter x3000 mm length, Class 1- SDR 11	50 No.

### **B. Ball Valves**

B.1.	CPVC valves 50 mm (2”) diameter	12 No.
B.2.	CPVC valves 40 mm (1½”) diameter	12 No.
B.3.	CPVC valves 25 mm (1”) diameter	10 No.
B.4.	CPVC valves 20 mm (¾”) diameter	40 No.

### **C. CPVC Elbow Fitting**

C.1.	CPVC elbow 50 mm (2”) diameter	50 No.
C.2.	CPVC elbow 40 mm (1½”) diameter	20 No.
C.3.	CPVC elbow 25 mm (1”) diameter	10 No.
C.4.	CPVC elbow 20 mm (¾”) diameter	75 No.

### **D. CPVC Coupler Fitting**

D.1.	CPVC coupler 50 mm (2”) diameter	65 No.
D.2.	CPVC coupler 40 mm (1½”) diameter	12 No.
D.3.	CPVC coupler 25 mm (1”) diameter	20 No.
D.4.	CPVC coupler 20 mm (¾”) diameter	30 No.

## ANNEXURE 1

### E. **CPVC Transition (Reducing) Coupler Fitting**

E.1.	CPVC coupler 50 mm (2") x 40 mm (1½")	5 No.
E.2.	CPVC coupler 40 mm (1½") x 25 mm (1")	5 No.
E.3.	CPVC coupler 25 mm (1") x 20 mm (¾")	20 No.

### F. **CPVC Unions**

F.2.	CPVC Union 50 mm (2")	10 No.
F.3.	CPVC Union 40 mm (1½")	10 No.
F.4.	CPVC Union 25 mm (1")	20 No.
F.5.	CPVC Union 20 mm (¾")	30 No.

### G. **CPVC Tees**

G.1.	CPVC Tee 50 mm (2")	5 No.
G.2.	CPVC Tee 40 mm (1½")	5 No.
G.3.	CPVC Tee 25 mm (1")	5 No.
G.4.	CPVC Tee 20 mm (¾")	30 No.
G.5.	CPVC Reducing Tee 40 mm (1½") x 50 mm (2") x 40 mm (1½")	4 No.
G.6.	CPVC Reducing Tee 20 mm (¾") x 40 mm (1½") x 20 mm (¾")	4 No.
G.7.	CPVC Reducing Tee 25 mm (1") x 20 mm (¾") x 25 mm (1")	4 No.

### H. **CPVC Plugs (End Caps)**

H.1.	CPVC elbow 20 mm (¾")	30 No.
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### I. **CPVC Tank Adaptors**

I.2.	CPVC Tank Adaptor 50 mm (2") Thread x SOC type	03 No.
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### J. **Brass FPT Elbow 90°**

J.1.	Brass FPT Elbow, 25 mm (1")	4 No.
J.2.	Brass FPT Elbow, 20 mm (¾")	30 No.

### K. **Brass FPT Tee**

K.1.	Brass FPT Tee, 20 mm (¾") x 20 mm (¾") x 20 mm (¾")	10 No.
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## ANNEXURE 1

### L. Bracket

L.2.	Bracket (Split Clamp), 55 mm (2")	150 No.
L.3.	Bracket (Split Clamp), 40 mm (1 ½")	30 No.
L.4.	Bracket (Split Clamp), 25 mm (1")	20 No.
L.4.	Bracket (Split Clamp), 20 mm (¾")	75 No.

### M. Adhesive

M.1.	Suitable adhesive for joining of above fittings in packets of 350 gm or 500 gm	3.5 Kg
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### Applicable Standards

All the offered pipes and fittings shall confirm to relevant standards as mentioned below

**Table - 3**

<b>IS 15778, 2007 or Later</b>	Standard Specification for CPVC pipes for Hot and Cold Water Supplies -Specification
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### Note for bidders:

- The offered items shall be regular catalogue item of the manufacturer. Necessary catalogue shall be submitted in support of the same at the time of bid.
- The bidder shall include all the items required above from S.No. A to M. Partial supply of items will lead to rejection of the bid. The bid shall necessarily include  
**Manufacturer Name of each item from A to M.**  
**Technical catalogue from original manufacturer, providing all the technical details of the offered items.**